

1 Biogeochemical cycles – Part 2 — Answers

Answers

Work through these after you have tried the questions yourself.

2.1 energy flows one way and is lost as heat; matter is recycled again and again.

2.2 adds: respiration and burning fuels (combustion); removes: photosynthesis.

2.3 evaporation, condensation (clouds), precipitation (rain), then runoff back to the sea.

2.4 it must first be converted by bacteria into a usable form (like nitrates); plants cannot take in nitrogen gas directly.

2.5 it releases extra carbon dioxide that was stored underground, adding more to the air than photosynthesis removes, so carbon builds up.